

PATENT
P02353US0

³⁴
~~15.~~ A transgenic non-human animal or transgenic plant whose cells are as defined in claim ²⁹~~10.~~

³⁵
~~16.~~ Method of treating a locus contaminated with a halo aromatic substrate comprising contacting the locus with:

(i) a monooxygenase enzyme, or

(ii) a cell that expresses:

- (a) a monooxygenase enzyme;
- (b) an electron transfer reductase; and
- (c) an electron transfer redoxin, or

(iii) a non-human transgenic animal or transgenic plant whose cells express (a), (b) and (c).

³⁶
~~17.~~ Process for selecting a mutant of a monooxygenase enzyme for its ability to oxidise a halo aromatic substrate, which process comprises screening a library of monooxygenase mutants for their oxidation effect on the substrate.

³⁷
~~18.~~ Process for oxidising a halo aromatic substrate which has more than one halogen atom, which process comprises oxidising said substrate with a monooxygenase enzyme, wherein a ring carbon of the substrate is oxidised, and wherein the enzyme is one that has been selected in a process according to claim ¹⁷~~17.~~

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REMARKS

Please substitute and examine the above-presented claims for those pending in the PCT application. Please begin numbering with the number 1. The above-presented claims represent re-written claims of the PCT application in U.S. format. No new matter has been added.

Sequence Listing

A Sequence Listing is submitted herewith in computer readable form and as a print out. The sequences are identical to those in the PCT application, and the content of the computer readable disk is identical to that of the prior out.

Please charge any fees due or credit any overpayment to the standing account of Fulbright & Jaworski L.L.P. No. 06-2375 under order no. P02353US0 on which the undersigned is authorized to sign..

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Please contact the undersigned attorney for resolution of any questions or issues in this matter.

Respectfully submitted,



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Dated: December 18, 2001